



Product Information

SAMSUNG TFT-LCD

MODEL NO. : LTN141X7-124

SAMSUNG ELECTRONICS CO. LTD.

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GENERAL DESCRIPTION

DESCRIPTION

LTN141X7-124 is a color active matrix TFT (Thin Film Transistor) liquid crystal display (LCD) that uses amorphous silicon TFT as a switching devices. This model is composed of a TFT LCD panel, a driver circuit and a backlight system. The resolution of a 14.1" contains 1,024 x 768 pixels and can display up to 262,144 colors. 6 O'clock direction is the Optimum viewing angle.

FEATURES

- Thin and light weight
- High contrast ratio
- XGA ((1024x768) pixels) resolution
- Low power consumption
- DE (Data enable) only mode.
- 3.3V LVDS (FPD Link) Interface with 1 pixel / clock

APPLICATIONS

- Notebook PC and desktop monitors
- Display terminals for AV application products
- Monitors for Industrial machine
- If the usage of this product is not for PC application, but for others, please contact SEC

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GENERAL INFORMATION

ITEM	SPECIFICATION	UNIT	NOTE
Display area	285.696(H)X214.272(V) (14.1"diagonal)	mm	
Driver element	a-Si TFT active matrix		
Display colors	262,144		
Number of pixel	1024 x 768	pixel	
Pixel arrangement	RGB vertical stripe	mm	
Pixel pitch	0.279(H) x 0.279(V) (TYP.)		
Display Mode	Normally white		
Surface treatment	HAZE (25), HARD-COATING (3H)		

Mechanical Information

ITEM	MIN.	TYP.	MAX.	NOTE
Module size (mm)	Horizontal (H)	298.0	298.5	299.0
	Vertical (V)	226.0	226.5	227.0
	Depth (D)	-	-	6.0
Weight	535g	550g	565g	

INPUT Interface Connection

LVDS

Connector : 1524B-2041R,UJU

Mating Connector : JAE FI-SE20M-HF

PIN NO	SYMBOL	FUNCTION	POLARITY	REMARK
1	VDD	POWER SUPPLY +3.3V		
2	VDD	POWER SUPPLY +3.3V		
3	GND	GROUND		
4	GND	GROUND		
5	RxIN0-	LVDS Differential Data INPUT	Negative	R0~R5
6	RxIN0+	LVDS Differential Data INPUT	Positive	G0
7	GND	GROUND		
8	RxIN1-	LVDS Differential Data INPUT	Negative	G1~G5
9	RxIN1+	LVDS Differential Data INPUT	Positive	B0~B1
10	GND	GROUND		
11	RxIN2-	LVDS Differential Data INPUT	Negative	B2~B5,DE
12	RxIN2+	LVDS Differential Data INPUT	Positive	Hsync,Vsync
13	GND	GROUND		
14	RxCLKIN-	LVDS Differential Data INPUT	Negative	
15	RxCLKIN+	LVDS Differential Data INPUT	Positive	
16	GND	GROUND		
17	NC	No Connection		
18	NC	No Connection		
19	GND	GROUND		
20	GND	GROUND		

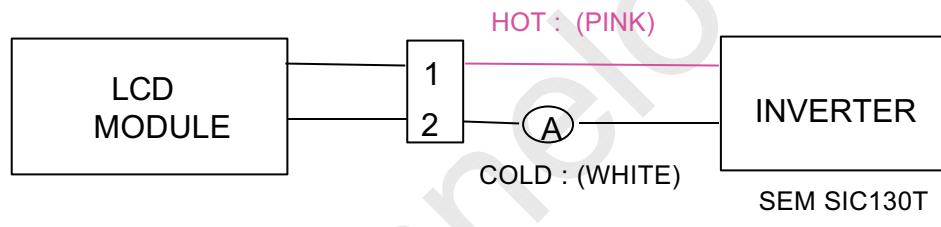
BACK-LIGHT UNIT

The backlight system is an edge - lighting type with a single CCFT.

T_a = 25 ± 2 °C

ITEM	SYMBOL	MIN.	MAX.	UNIT	NOTE
Lamp Current	I _L	3.0	6.0	mArms	(1)
Lamp frequency	F _L	40	80	kHz	(1)

Note 1) Permanent damage to the device may occur if maximum values are exceeded
Functional operation should be restricted to the conditions described under normal operating condition



Switching Frequency : 40 ~ 60KHz

Connector : JST BHSR - 02VS -1
Mating Connector : SM02B-BHSS-1(JST)

BACKLIGHT CONNECTOR PIN CONFIGURATION

Pin NO.	Symbol	Color	Function
1	HOT	Pink	High Voltage
2	COLD	White	Ground

